

## High-feed drill solid carbide TiAlNplus HPC 5xD with internal cooling HA

For use in steel and casting materials

**ATORN**<sup>®</sup>



### Application

Designed for use with very high feeds on stable and high-performance machines

### Version

- 3-edge drill
- 4 grinding surfaces with concave main cutting edge
- 3 drill heels
- 30° spiral angle

### Advantage

- Up to 50% higher productivity compared to dual-edge drill bits
- Perfectly round holes combined with excellent self-centring behaviour, even on uneven surfaces
- Extremely high feed rates thanks to the special cutting geometry
- Polished chip spaces and optimised tapered core rejuvenation ensure perfect chip removal
- Minimum burr formation at hole exit thanks to the 135° tip angle

| Application | Steel (N/mm <sup>2</sup> ) |       |       | Stainless steel |         | Alu   |      | Brass |      | Bronze |      | Plas-tics | Graphite G(C)FK | GG(G) GJMW | Titan-alloy | Nickel-alloy | Super-alloy | Hard mat. |         |
|-------------|----------------------------|-------|-------|-----------------|---------|-------|------|-------|------|--------|------|-----------|-----------------|------------|-------------|--------------|-------------|-----------|---------|
|             | <700                       | <1000 | <1300 | marten.         | austen. | short | long | short | long | short  | long |           |                 |            |             |              |             | <55 HRC   | <65 HRC |
|             | 140                        | 110   | 90    | 60              | 50      |       |      |       |      |        |      |           |                 | 130        |             |              |             |           |         |

|   |                   |
|---|-------------------|
| <b>Art. No.</b>                           | <b>11131 142</b>  |
| <b>Cutting edge diameter</b>              | 14.2 mm           |
| <b>Tolerance of cutting edge diameter</b> | h7                |
| <b>Cutting material</b>                   | VHM               |
| <b>Surface</b>                            | TiAlN plus        |
| <b>Max. drilling depth (D)</b>            | 5xD               |
| <b>Type</b>                               | HPC UNI           |
| <b>Coolant supply</b>                     | Internal          |
| <b>Tool holding device</b>                | HA parallel shank |
| <b>Angle of the tip</b>                   | 135 Degree        |
| <b>Shaft diameter</b>                     | 16 mm             |
| <b>Chip flute length</b>                  | 83 mm             |
| <b>Length</b>                             | 133 mm            |
| <b>f steel 1000</b>                       | 0.63 mm/r         |
| <b>DIN</b>                                | 6537              |

### EAN-Code

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